

$$i_A = I_A \cos \omega_A t$$

$$I_{CD} = I_A$$

$$i_A$$

$$i_s$$

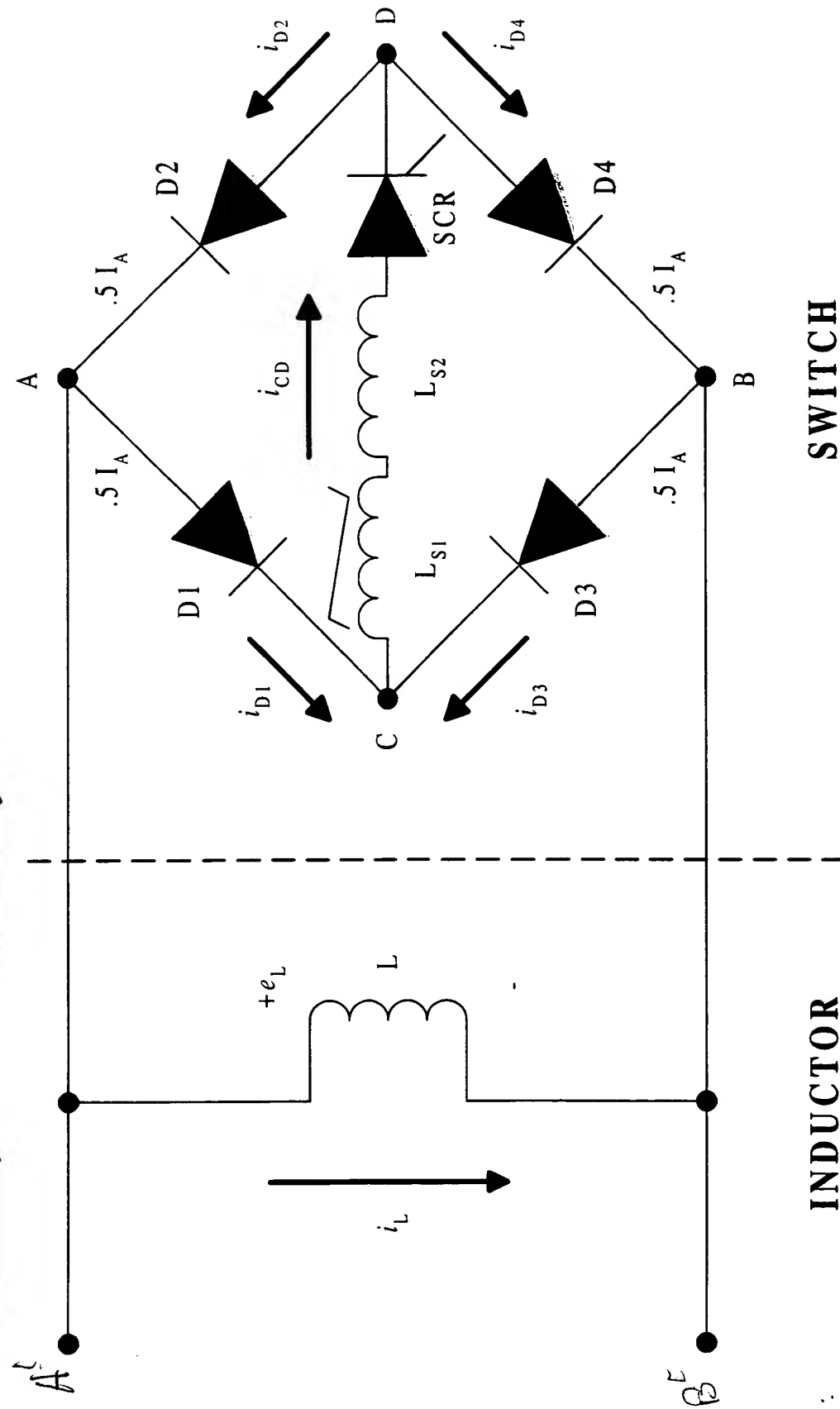


Figure 1
Switch across Inductor L

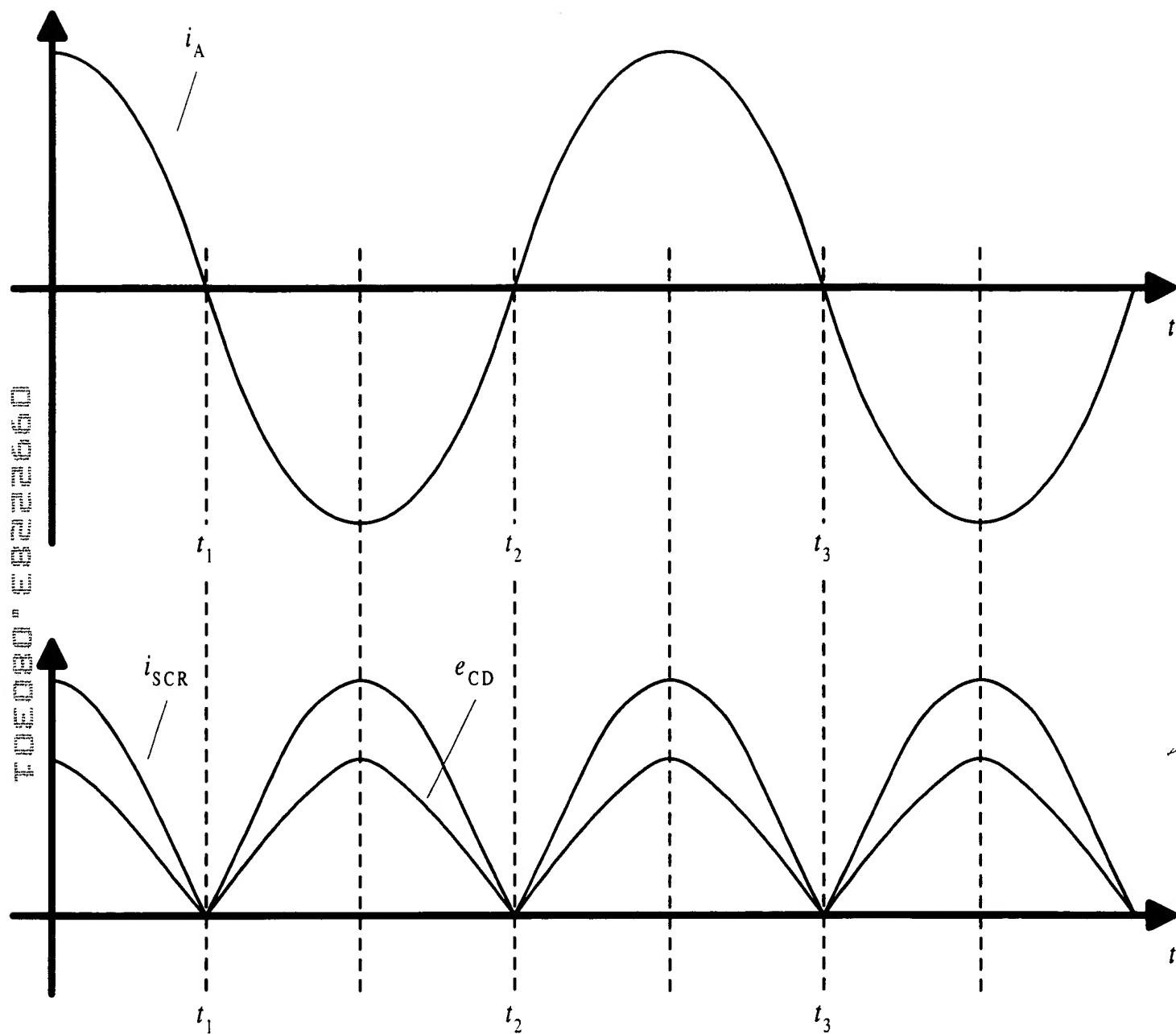


Figure 2
Switch Waveforms With Series Resistor

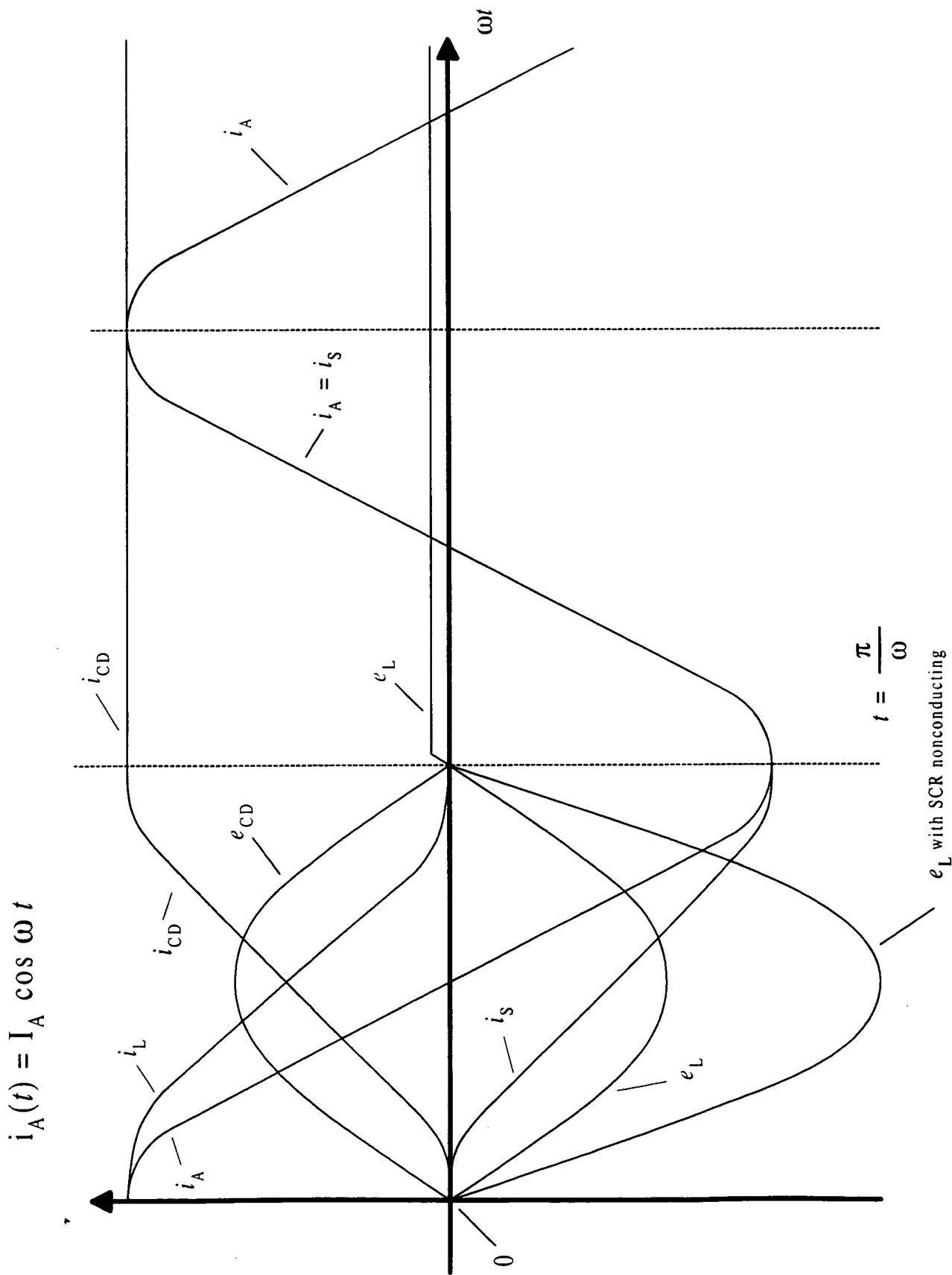


Figure 3
Voltage and Current Waveform for Inductor Switching

$\omega t = 90^\circ$, $i_A = 0$, i_{CD} positive, i_C negative, $i_A = i_C + i_S$

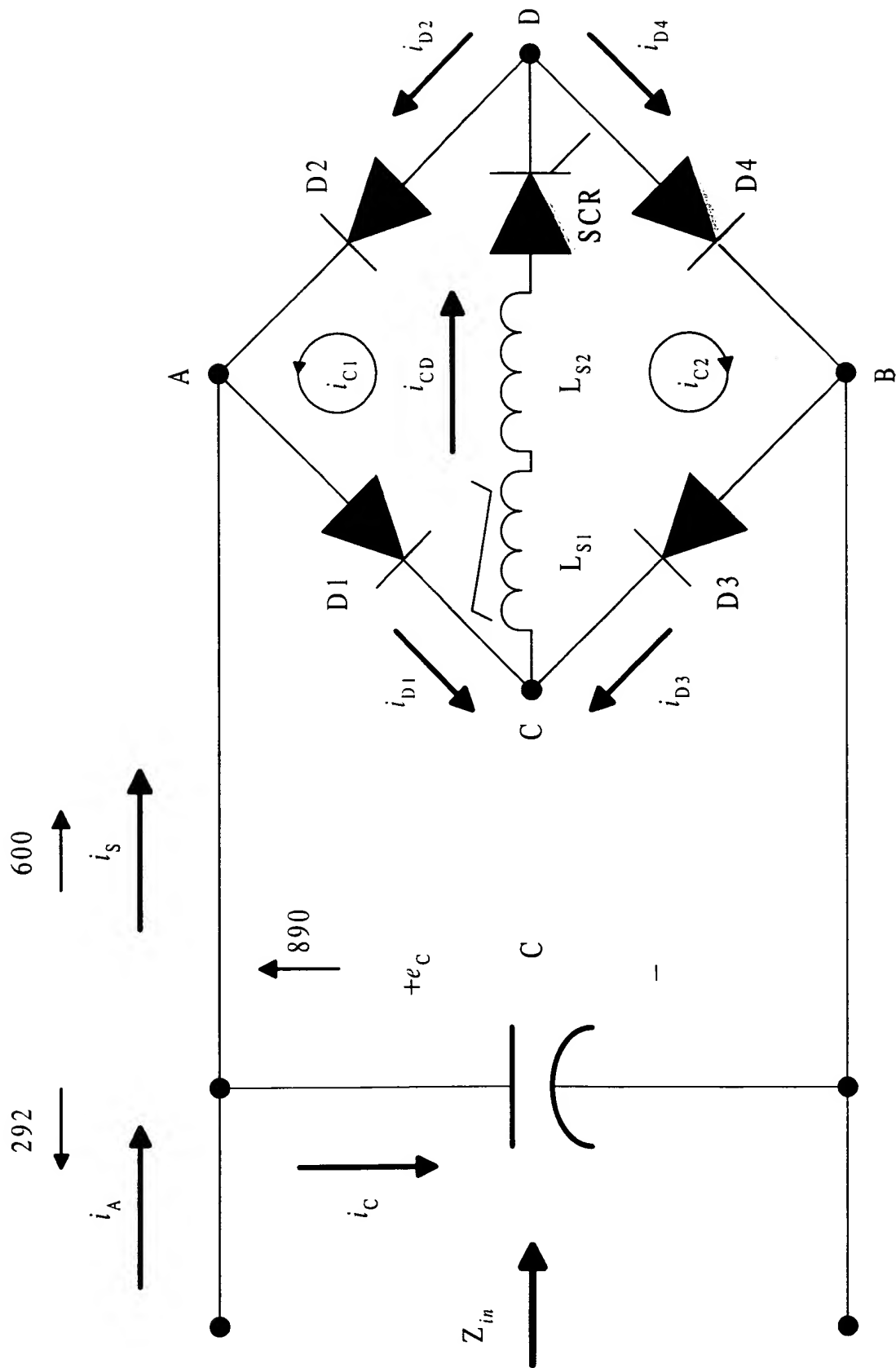


Figure 4
Switch across Series Capacitor

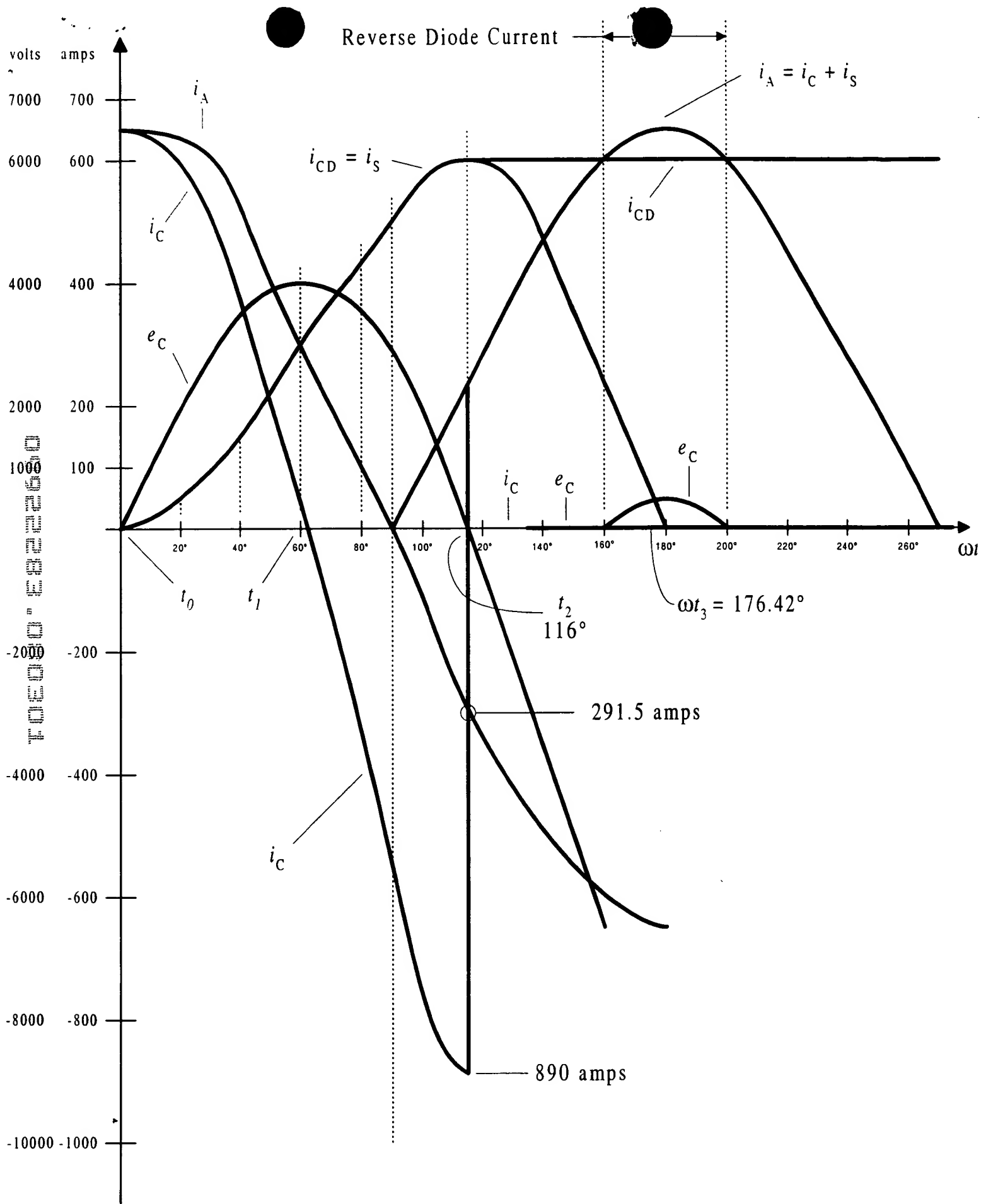


Figure 5
Voltage and Current Waveform for Capacitor Switching